

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/664, 234B  
Source: IFW/6  
Date Processed by STIC: 12/15/2006

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 12/15/2006

PATENT APPLICATION: US/10/664,234B

TIME: 09:40:11

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\12152006\J664234B.raw

```

3 <110> APPLICANT: Ruan, Yijun
4     Ng, Patrick
5     Wei, Chialin
7 <120> TITLE OF INVENTION: Method for Gene Identification Signature (GIS) Analysis
9 <130> FILE REFERENCE: 3240-105
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/664,234B
12 <141> CURRENT FILING DATE: 2003-09-17
14 <160> NUMBER OF SEQ ID NOS: 29
16 <170> SOFTWARE: PatentIn version 3.3
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 33
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial
23 <220> FEATURE:
24 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
27 <220> FEATURE:
28 <221> NAME/KEY: misc_feature
29 <222> LOCATION: (1)..(33)
30 <223> OTHER INFORMATION: n is a,c,g, or t
32 <220> FEATURE:
33 <221> NAME/KEY: misc_feature
34 <222> LOCATION: (1)..(33)
35 <223> OTHER INFORMATION: v is a,c,g
37 <400> SEQUENCE: 1
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41 <210> SEQ ID NO: 2
42 <211> LENGTH: 30
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial
46 <220> FEATURE:
47 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
50 <220> FEATURE:
51 <221> NAME/KEY: misc_feature
52 <222> LOCATION: (1)..(30)
53 <223> OTHER INFORMATION: n is a,t,c or g
55 <400> SEQUENCE: 2
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59 <210> SEQ ID NO: 3
60 <211> LENGTH: 20
61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial
64 <220> FEATURE:

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65 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning  
vector

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67 <400> SEQUENCE: 3
68 gtcggatcca agcggccgcg                               20
71 <210> SEQ ID NO: 4
72 <211> LENGTH: 30
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial
76 <220> FEATURE:
77 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <222> LOCATION: (1)..(30)
83 <223> OTHER INFORMATION: n is a,t,c or g
85 <400> SEQUENCE: 4
W--> 86 aattcgcggc cgttggtatc cgacgnnnnn                30
89 <210> SEQ ID NO: 5
90 <211> LENGTH: 19
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial
94 <220> FEATURE:
95 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
97 <400> SEQUENCE: 5
98 tcgacccagg atccaactt                                19
101 <210> SEQ ID NO: 6
102 <211> LENGTH: 13
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial
106 <220> FEATURE:
107 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (1)..(13)
113 <223> OTHER INFORMATION: phosphorylation
115 <400> SEQUENCE: 6
116 gttggatcct ggg                                     13
119 <210> SEQ ID NO: 7
120 <211> LENGTH: 17
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial
124 <220> FEATURE:
125 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
127 <400> SEQUENCE: 7
128 gtaaaacgac ggccagt                                17
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 19
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial
136 <220> FEATURE:
137 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector

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139 <400> SEQUENCE: 8

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140 ggaaacagct atgaccatg                                     19
143 <210> SEQ ID NO: 9
144 <211> LENGTH: 20
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial
148 <220> FEATURE:
149 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
151 <400> SEQUENCE: 9
152 taatacgact cactataggg                                     20
155 <210> SEQ ID NO: 10
156 <211> LENGTH: 22
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial
160 <220> FEATURE:
161 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
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163 <400> SEQUENCE: 10
164 gatgtgctgc aaggcgatta ag                                   22
167 <210> SEQ ID NO: 11
168 <211> LENGTH: 23
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial
172 <220> FEATURE:
173 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
175 <400> SEQUENCE: 11
176 agcggataac aatttcacac agg                                   23
179 <210> SEQ ID NO: 12
180 <211> LENGTH: 48
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Oligionucleotide with homolgy to a bacteria cloning vector
188 <220> FEATURE:
189 <221> NAME/KEY: misc_feature
190 <222> LOCATION: (1)..(48)
191 <223> OTHER INFORMATION: n is a,t,c or g
193 <400> SEQUENCE: 12
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197 <210> SEQ ID NO: 13
198 <211> LENGTH: 48
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Oligionucleotide with homolgy to a bacteria cloning vector
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (1)..(48)
209 <223> OTHER INFORMATION: n is a,t,c or g
211 <400> SEQUENCE: 13
W--> 212 gatccaactt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngtcg         48

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Input Set : A:\3240-105.ST25.txt

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215 <210> SEQ ID NO: 14
216 <211> LENGTH: 29
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Oligionucleotide primer with homolgy to a bacteria cloning
vector
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: (1)..(29)
227 <223> OTHER INFORMATION: phosphorylation
229 <400> SEQUENCE: 14
230 cgctctcctg taccgaccct gccgcttac 29
233 <210> SEQ ID NO: 15
234 <211> LENGTH: 29
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Oligionucleotide primer with homolgy to a bacteria cloning
vector
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
244 <222> LOCATION: (1)..(29)
245 <223> OTHER INFORMATION: phosphorylation
247 <400> SEQUENCE: 15
248 aactatcgtc ttgagaccaa cccggtaag 29
251 <210> SEQ ID NO: 16
252 <211> LENGTH: 24
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Oligionucleotide adapter with homolgy to a bacteria cloning
258 vector
260 <400> SEQUENCE: 16
261 aattctcgag cggccgcgat atcg 24
264 <210> SEQ ID NO: 17
265 <211> LENGTH: 24
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial
269 <220> FEATURE:
270 <223> OTHER INFORMATION: Oligionucleotide adapter with homolgy to a bacteria cloning
271 vector
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature
276 <222> LOCATION: (1)..(24)
277 <223> OTHER INFORMATION: phosphorylation
279 <400> SEQUENCE: 17
280 aattcgatat cgcggccgct cgag 24
283 <210> SEQ ID NO: 18
284 <211> LENGTH: 3404
285 <212> TYPE: DNA

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## RAW SEQUENCE LISTING

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TIME: 09:40:11

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\12152006\J664234B.raw

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286 <213> ORGANISM: Artificial
288 <220> FEATURE:
289 <223> OTHER INFORMATION: bacterial cloning vector
291 <400> SEQUENCE: 18
292 gggcgaattc tgcagcgcc gcgcatccga cgagagcgcc tgcgtacggc tcgcccgcggt      60
294 ggctggcgct acttcggagg agcccagcgc ggcgcggtcg tttttataca ttcccgcgcg      120
296 gaggcaacgg aagggcgggg cgccctcgtga ttaggcgcgc gaggtcacag gctctgttgt      180
298 catgaaggtg aaaattaaat gttggaatgg tgtggccact tggctctggg tagccaatga      240
300 tgagaactgc ggcactctga ggatggcggt taatggctgc tgtccagact gtaaggtgcc      300
302 tgggtgatgac tgccccctcg tgtggggaca gtgctccac tgcttcaca tgcactgcat      360
304 cctcaagtgg ctgaatgcgc agcaggtgca gcagcactgc cccatgtgtc gccaggagtg      420
306 gaagttcaaa gagtgaagcc cgtgccgtgc cacttccctc tcctgtgtcg tgccaggctc      480
308 agcccccttc ctccccctcc tccccagat acagcaccac aagtcacctc cacacagcac      540
310 agtgggtgccc agagatctcg gtctgtgccc gggacaagga tgctttctgt ttggctggga      600
312 caaggttgaa aggagctttg ctgactgttt tgttttccca tcacattgac actttattca      660
314 ataagtaaaa ctcatcacag ttccaagtcg gatcctgggt cgacctgcag gcatgcaagc      720
316 ttgagtattc tatagtgtca cctaaatagc ttggcgtaat catggtcata gctgtttcct      780
318 gtgtgaaatt gttatccgct cacaattcca cacaacatac gagccggaag cataaagtgt      840
320 aaagcctggg gtgcctaata agtgagctaa ctcacattaa ttgcgttgcg ctactgccc      900
322 gctttccagt cgggaaacct gtctgtgccag ctgcattaat gaatcggcc aacgcgcggg      960
324 agaggcggtt tgcgtattgg gcgctcttcc gcttcctcgc tactgactc gctgcgctcg      1020
326 gtcgttcggc tgcggcgagc ggtatcagct cactcaaagg cggtaatagc gttatccaca      1080
328 gaatcagggg ataacgcagg aaagaacatg tgagcaaaag gccagcaaaa ggccagggaac      1140
330 cgtaaaaagg ccgcgttgct ggcgtttttc gataggctcc gccccctga cgagcatcac      1200
332 aaaaatcgac gctcaagtca gaggtggcga aaccgcagac gactataaag ataccaggcg      1260
334 tttccccctg gaagctccct cgtgcgctct cctgtaccga ccctgccgct taccggatac      1320
336 ctgtccgcct ttctcccttc ggggaagcgtg gcgctttctc atagctcacg ctgtagggtat      1380
338 ctcaagttcgg tgtaggctcg tcgctccaag ctgggctgtg tgcacgaacc ccccgttcag      1440
340 cccgaccgct gcgccttatc cggtaactat cgtcttgaga ccaaccgggt aagacacgac      1500
342 ttatcgccac tggcagcagc cactggtaac aggattagca gagcgaggta tgtaggcggt      1560
344 gctacagagt tcttgaagtg gtggcctaac tacggctaca ctagaaggac agtatttggt      1620
346 atctgcgctc tgcgaagcc agttaccttc ggaaaaagag ttggtagctc ttgatccggc      1680
348 aaacaaacca ccgctggtag cgggtggtttt tttgtttgca agcagcagat tacgcgcaga      1740
350 aaaaaaggat ctcaagaaga tcctttgatc tttctacgg ggtctgacgc tcagtggaaac      1800
352 gaaaactcac gttaagggat tttgggtcatg agattatcaa aaaggatctt cacctagatc      1860
354 cttttaaatt aaaaatgaag ttttaaatac atctaaagta tatatgagta aacttggtct      1920
356 gacagttacc aatgcttaat cagtgaggca cctatctcag cgatctgtct atttcggtca      1980
358 tccatagttg cctgactccc cgtcgtgtag ataactacga tacgggaggg cttaccatct      2040
360 ggccccagtg ctgcaatgat accgcgagac ccacgctcac cggtccaga tttatcagca      2100
362 ataaaccagc cagccggaag ggccgagcgc agaagtggtc ctgcaacttt atccgcctcc      2160
364 atccagttca ttaattgttg ccgggaagct agagtaagta gttcgccagt taatagtttg      2220
366 cgcaacggtt ttggcattgc tacaggcatc gtgggtgtcac gctcgtcggt ttggtatggc      2280
368 tcattcagct ccggttccca acgatcaagg cgagttacat gatccccat gttgtgcaaa      2340
370 aaagcgggta gctccttcgg tcctccgatc gttgtcagaa gtaagttggc cgcagtggtta      2400
372 tcaactcatg ttatggcagc actgcataat tctcttactg tcatgccatc cgtaagatgc      2460
374 ttttctgtga ctgggtgagta ctcaaccaag tcattctgag aatagtgatg gcggcgaccg      2520
376 agttgctctt gcccggcgct aatacgggat aataccgcgc cacatagcag aactttaaaa      2580
378 gtgctcatca ttggaaaacg ttcttcgggg cgaaaactct caaggatctt accgctgttg      2640
380 agatccagtt cgatgtaacc cactcgtgca cccaactgat cttcagcatc ttttactttc      2700

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RAW SEQUENCE LISTING ERROR SUMMARY  
 PATENT APPLICATION: US/10/664,234B

DATE: 12/15/2006  
 TIME: 09:40:12

Input Set : A:\3240-105.ST25.txt  
 Output Set: N:\CRF4\12152006\J664234B.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 33 ✓  
 Seq#:2; N Pos. 25, 26, 27, 28, 29, 30 ✓  
 Seq#:4; N Pos. 26, 27, 28, 29, 30 ✓  
 Seq#:12; N Pos. 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 ✓  
 Seq#:12; N Pos. 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42 ✓  
 Seq#:13; N Pos. 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 ✓  
 Seq#:13; N Pos. 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44 ✓

**Invalid <213> Response:**

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,27,28  
 Seq#:29

**VERIFICATION SUMMARY**

DATE: 12/15/2006

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TIME: 09:40:12

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\12152006\J664234B.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0